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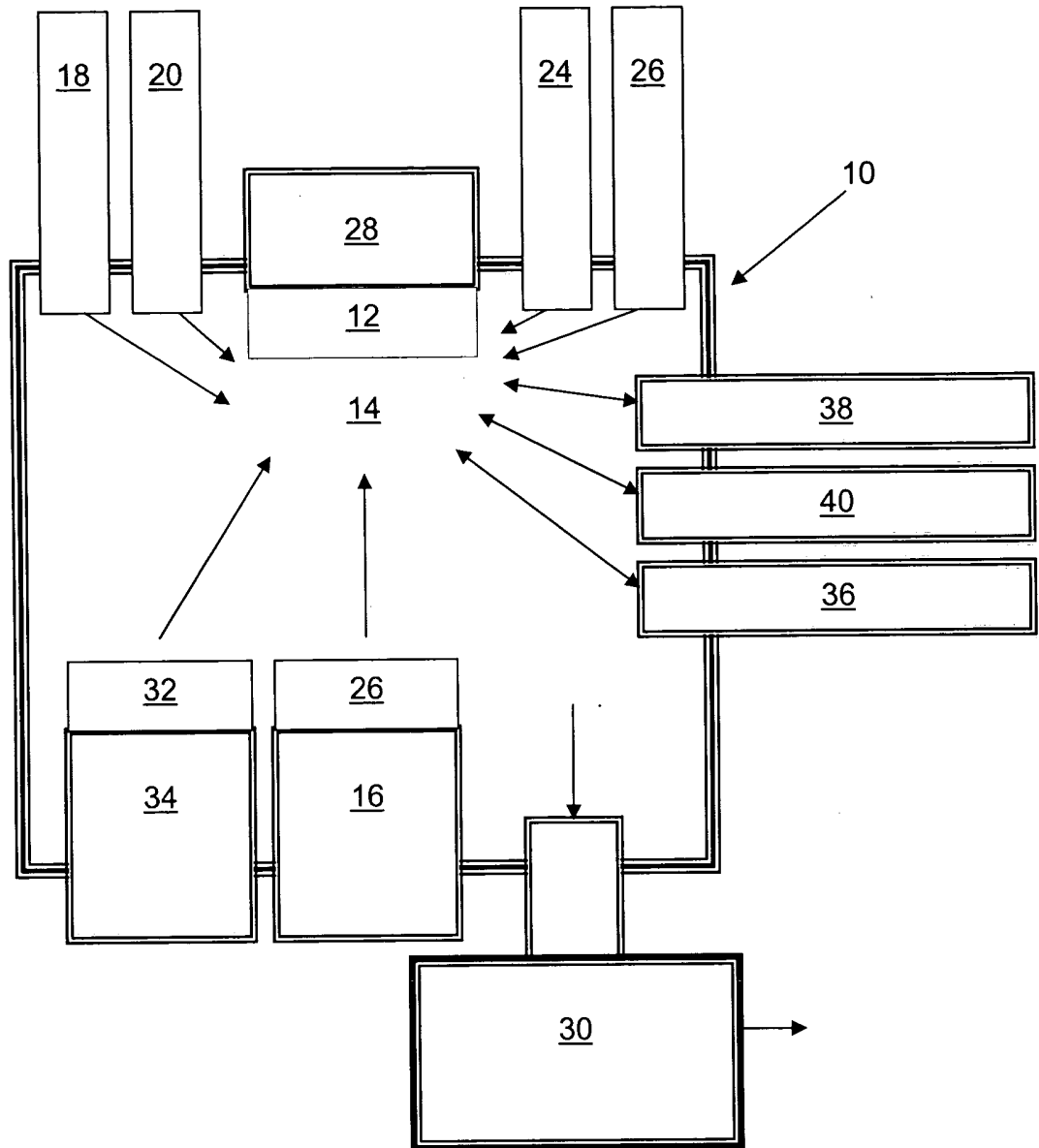


Fig. 1

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ZnO thickness ~ 500 nm/Si

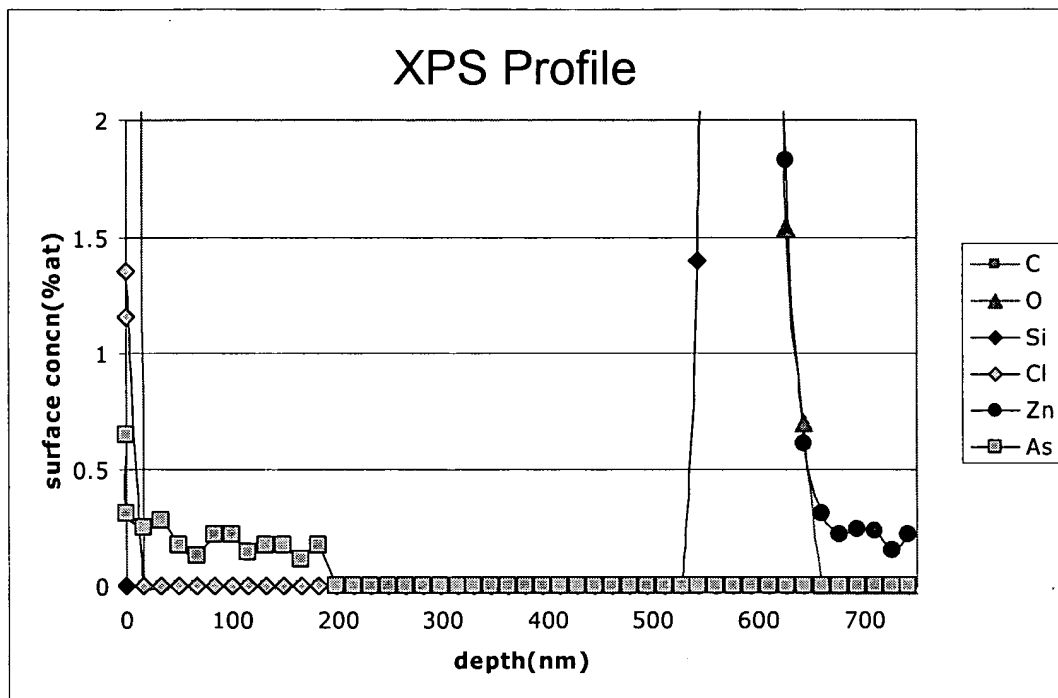


Fig. 2

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P-type ZnO: Photoluminescent Comparisons

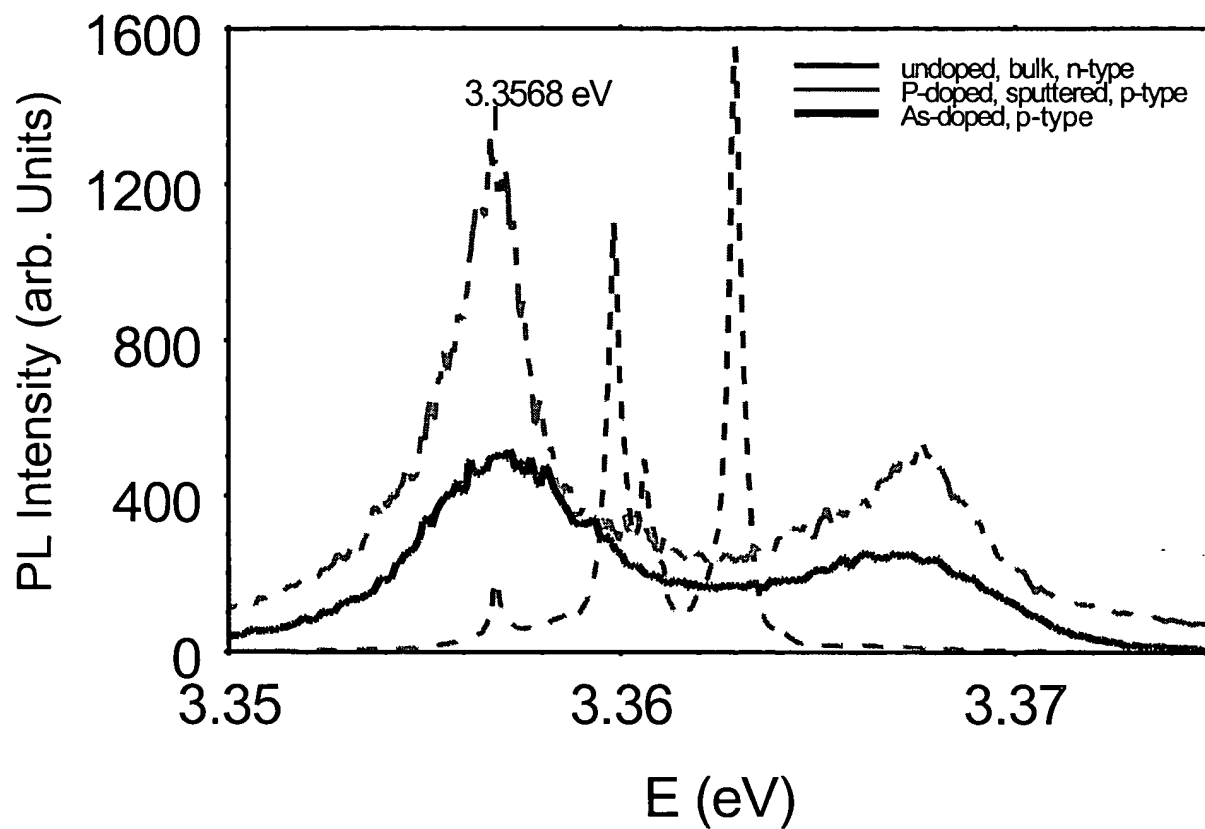


Fig. 3

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Resistance & Mobility of As doped ZnO

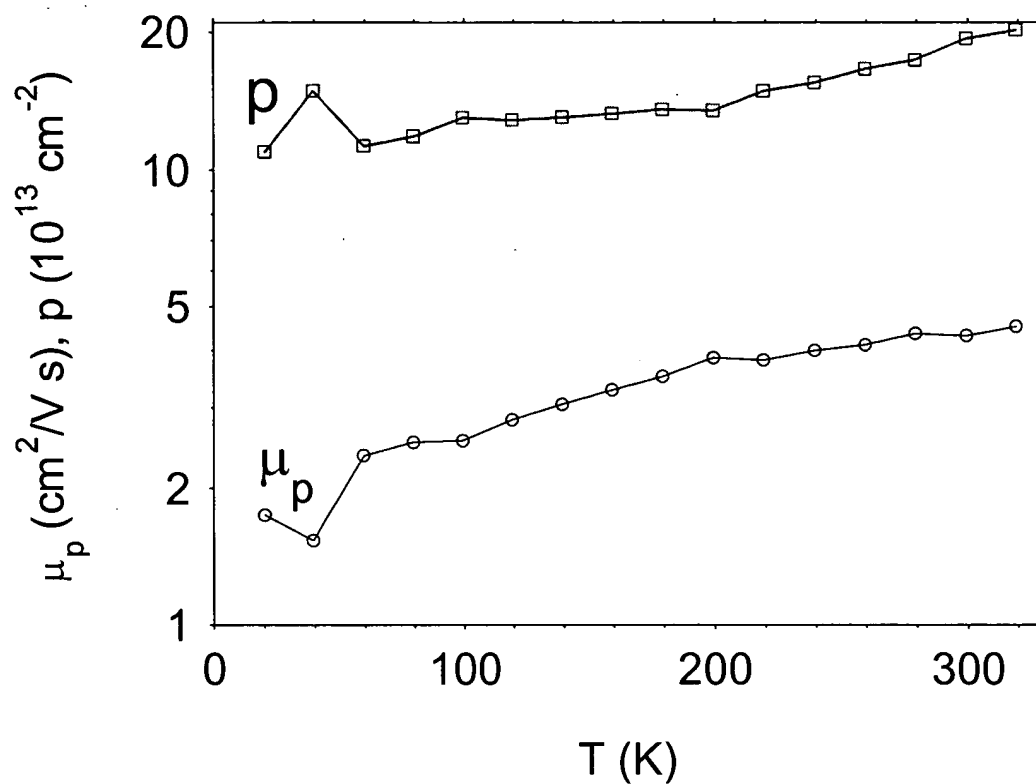


Fig. 4

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SIMS Data Showing Concentration vs. Depth

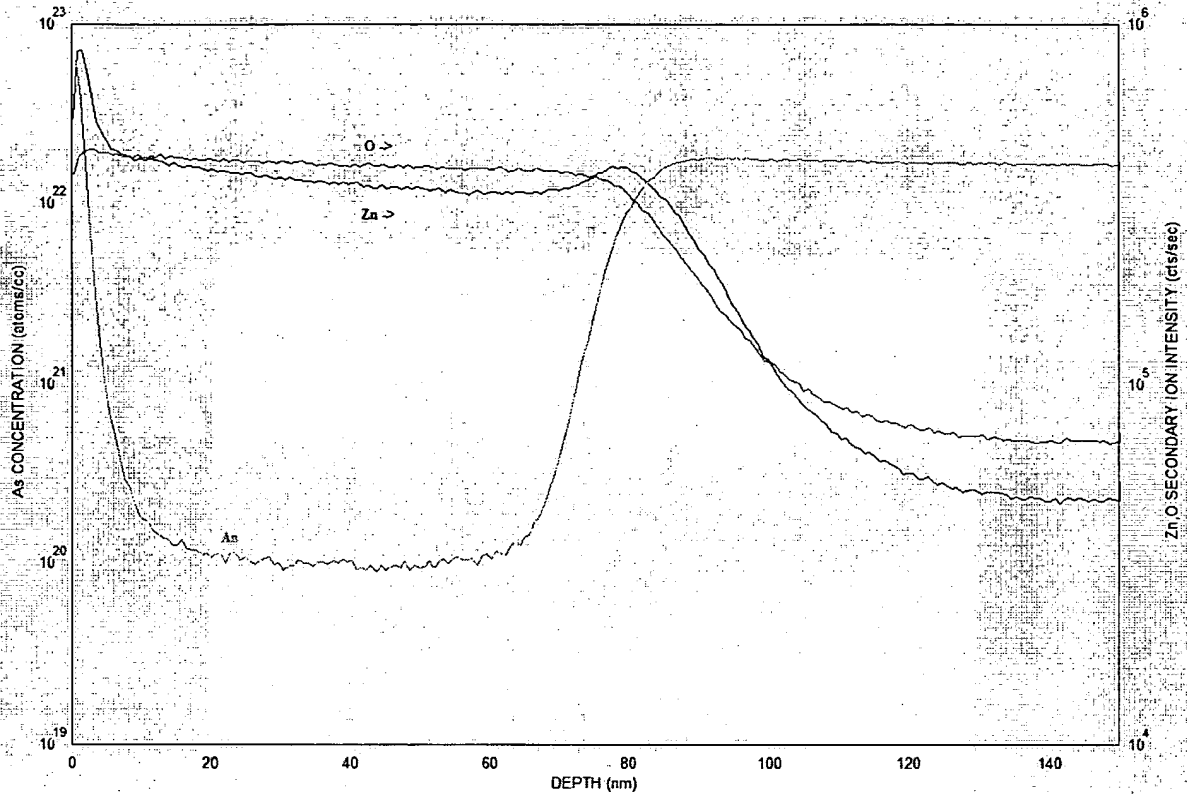


Fig. 5

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Polycrystalline Zinc Oxide XRD Pattern

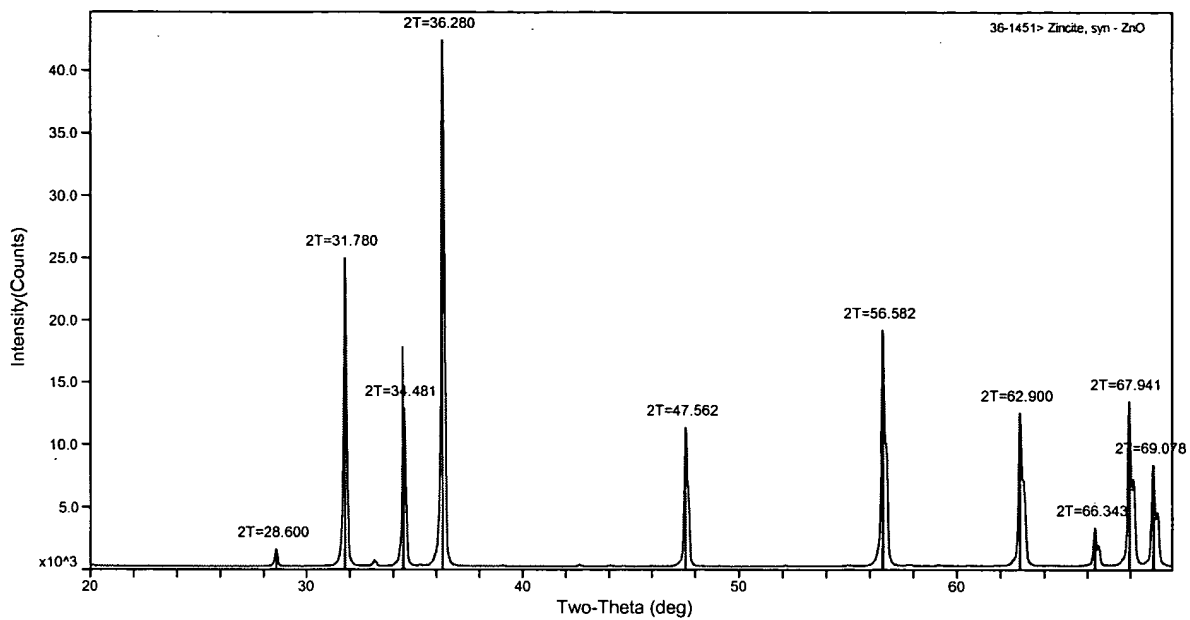


Fig. 6

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Zinc Oxide XRD Pattern
Showing Single Crystal (002) Plane

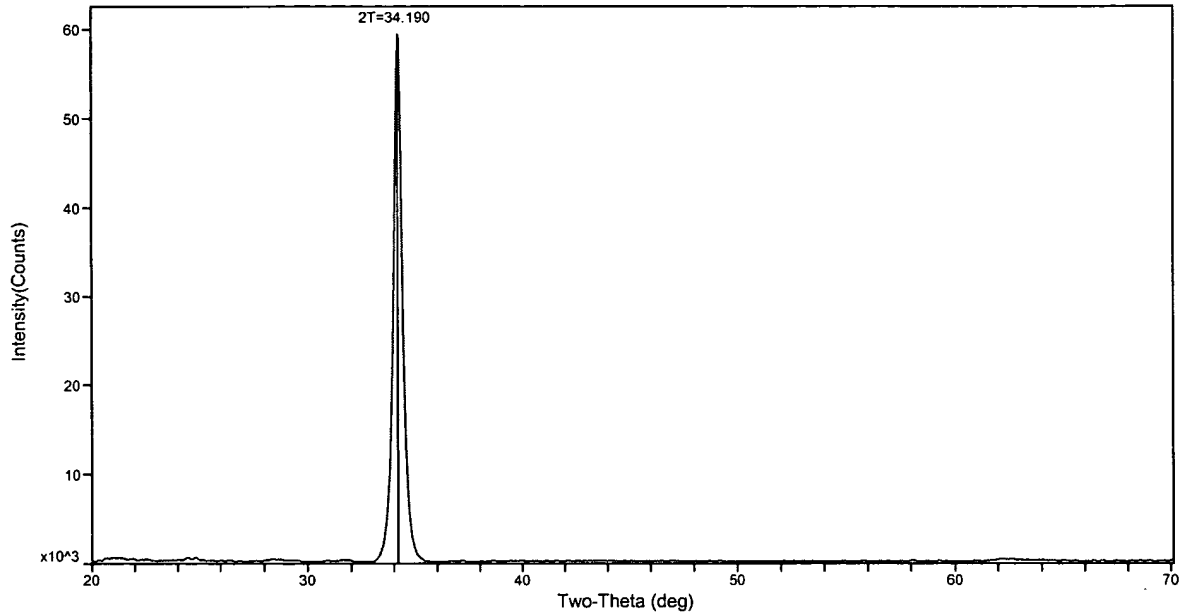


Fig. 7

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Antimony Concentration In Zinc Oxide

Atoms/cm³ versus Depth Into The Surface

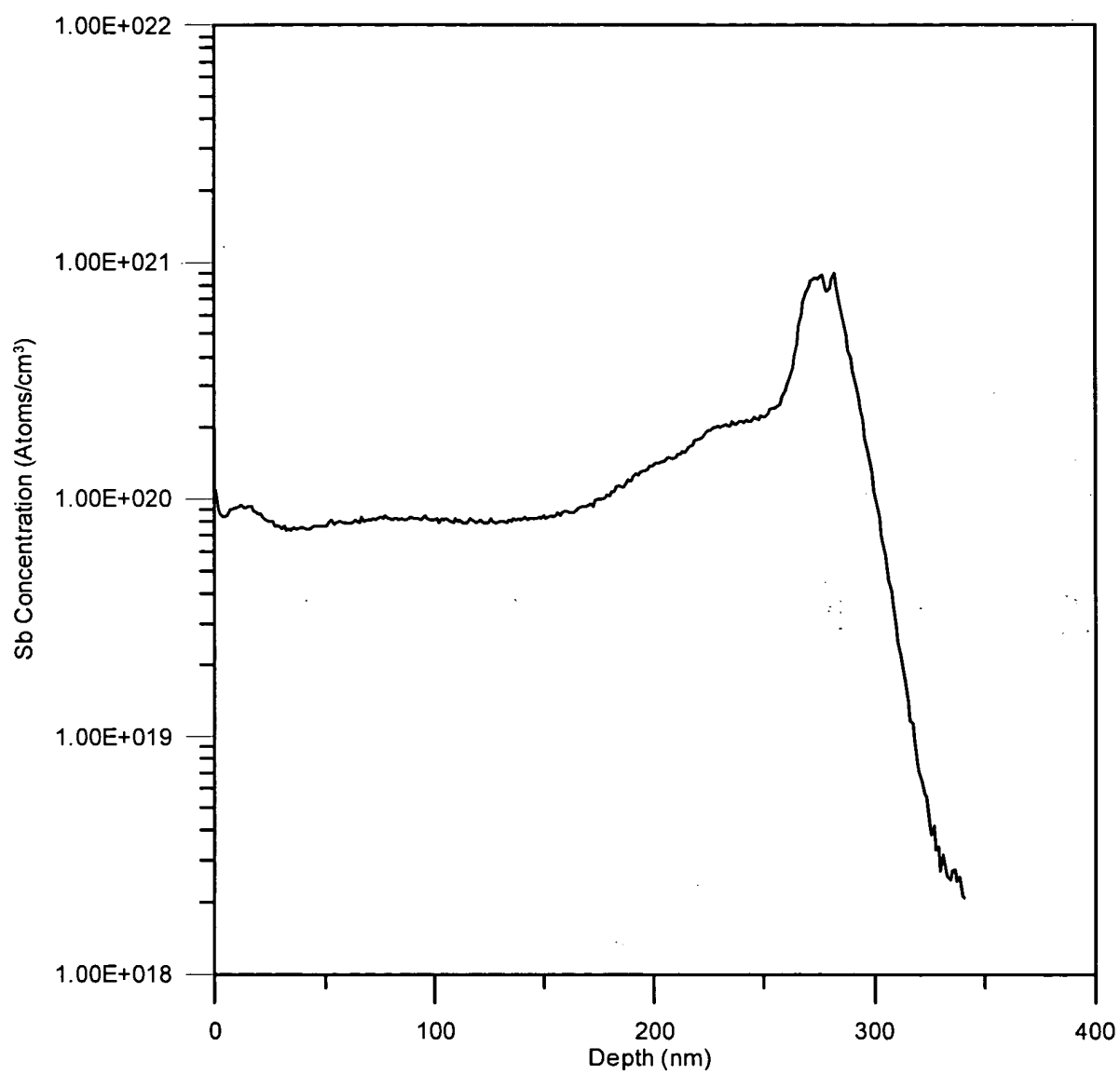


Fig. 8

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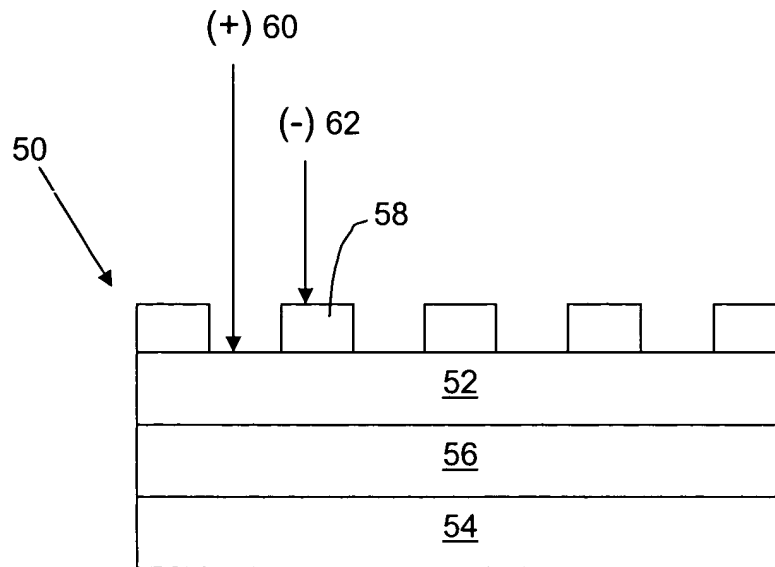


Fig. 9

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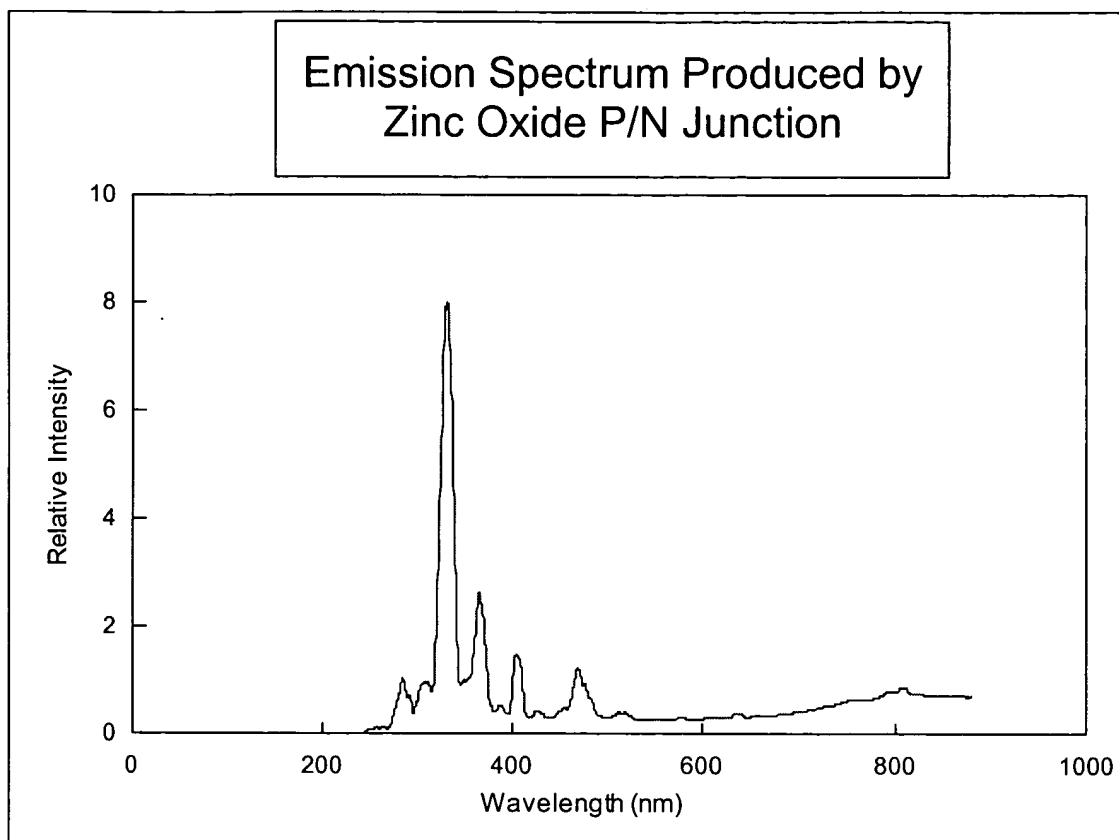


Fig. 10

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Current - Voltage Plot of a Zinc Oxide P/N Junction

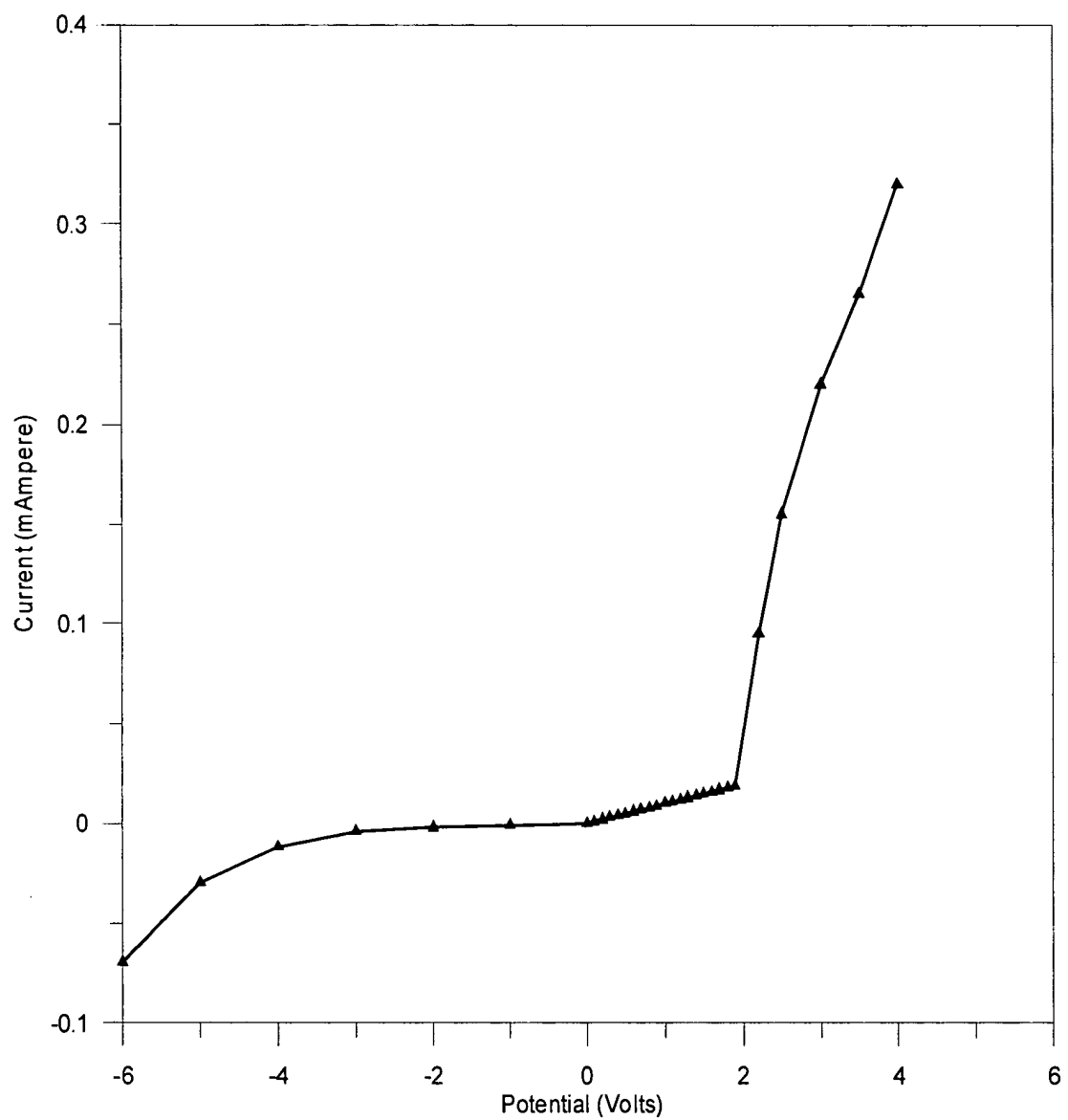


Fig. 11

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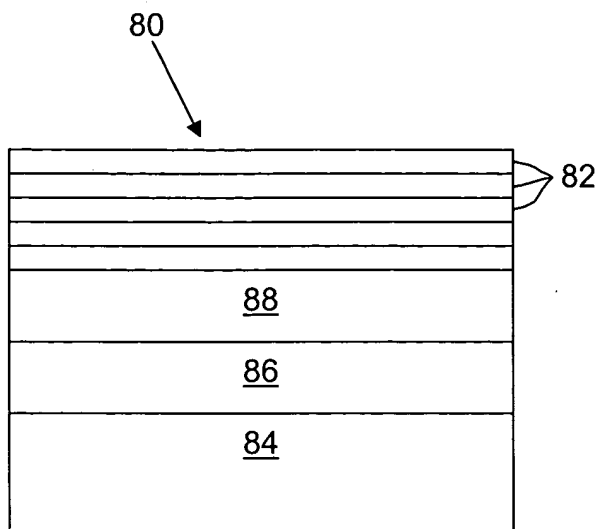


Fig. 12A

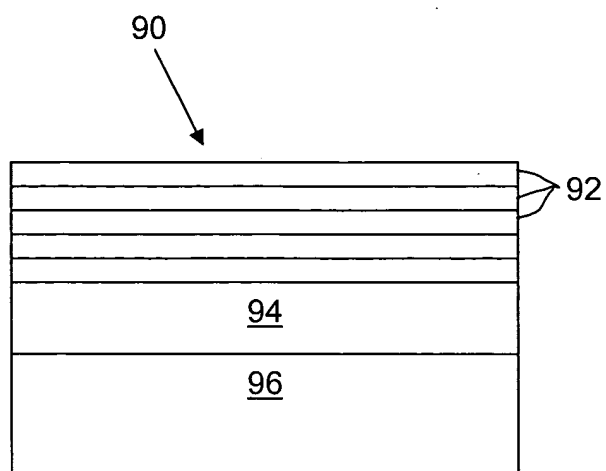


Fig. 12B

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Zinc - Oxygen - Arsenic Ternary Diagram

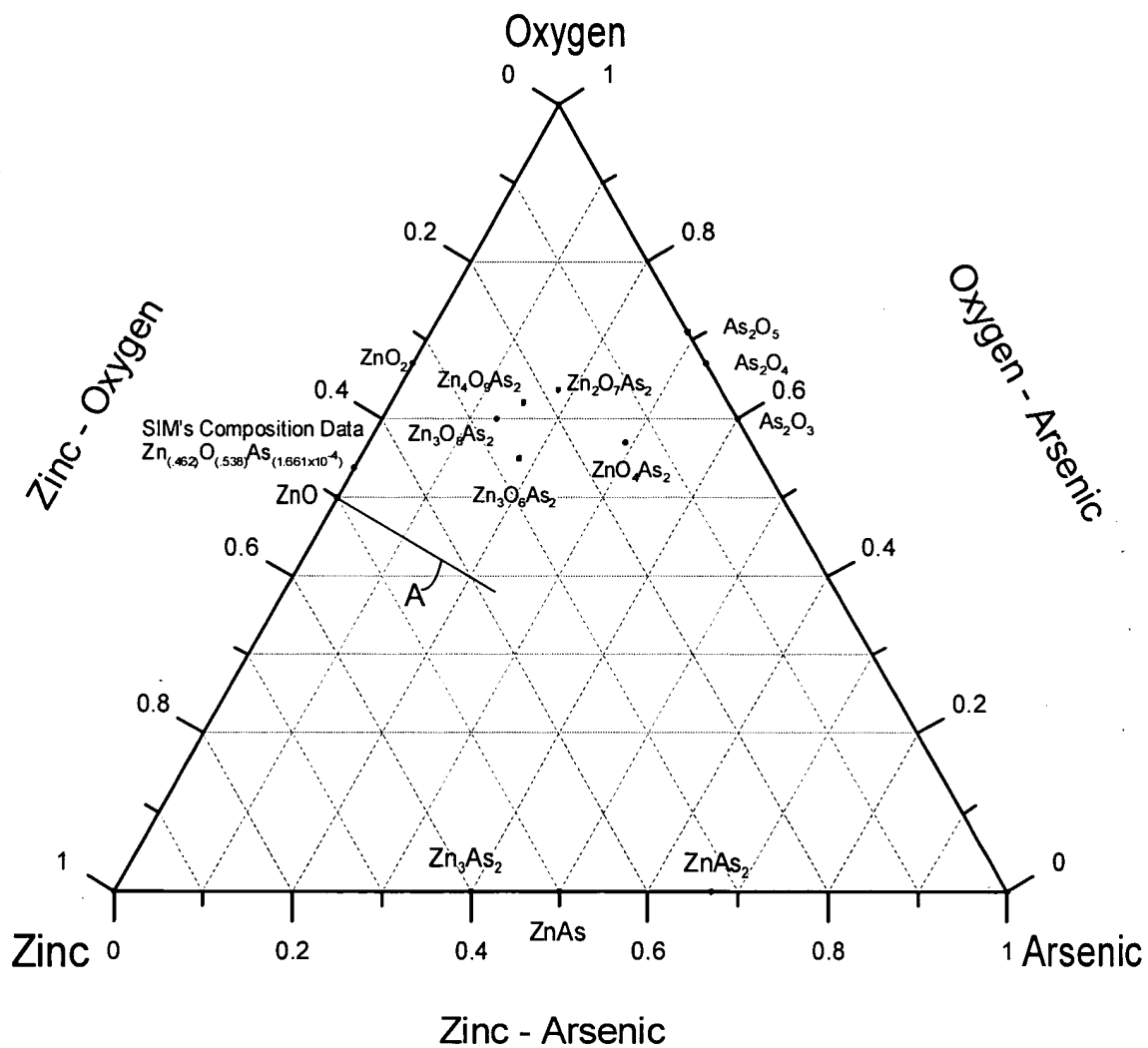


Fig. 13A

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Zinc - Oxygen - Arsenic Ternary Diagram

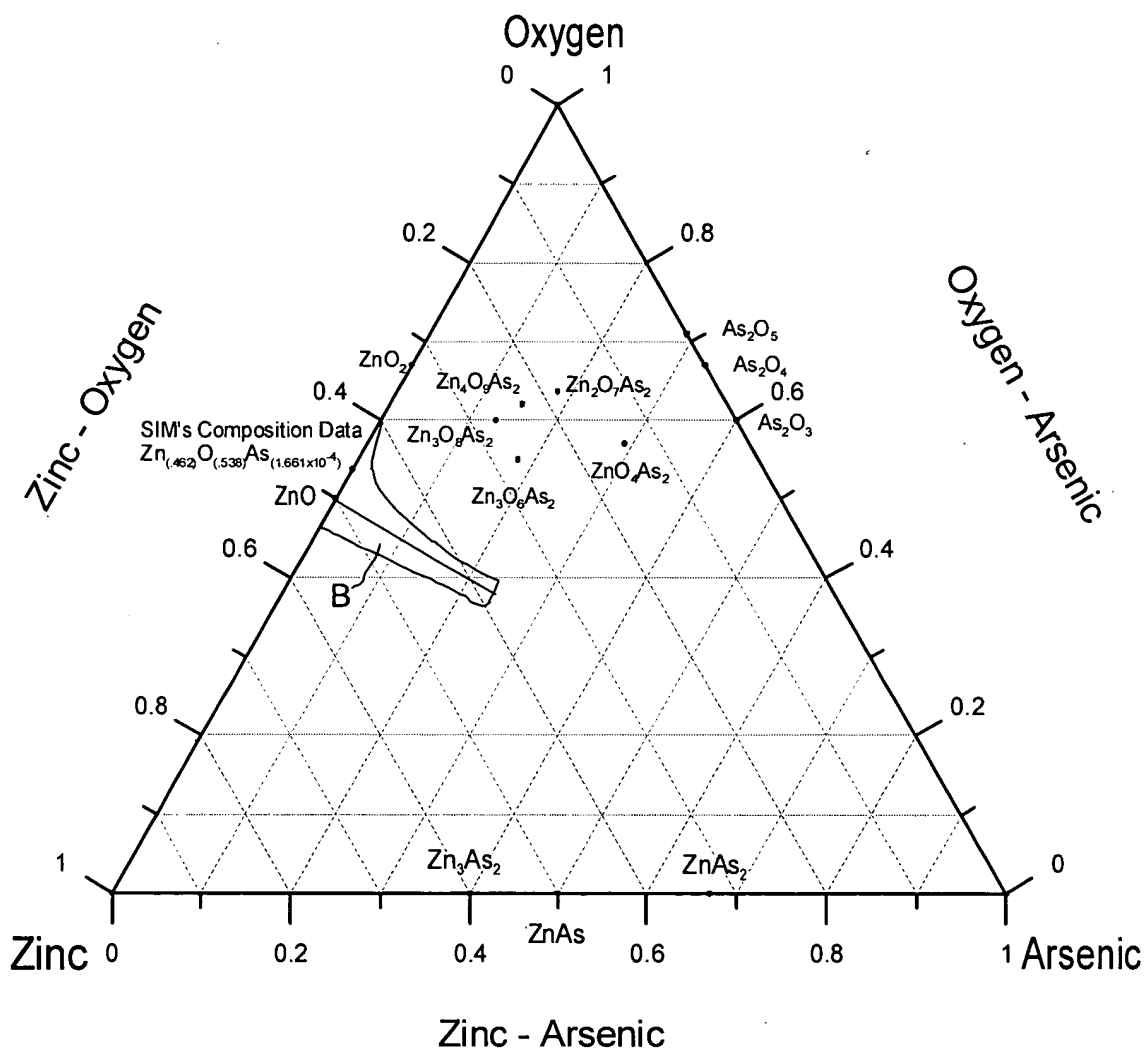


Fig. 13B

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Zinc - Oxygen - Antimony Ternary Diagram

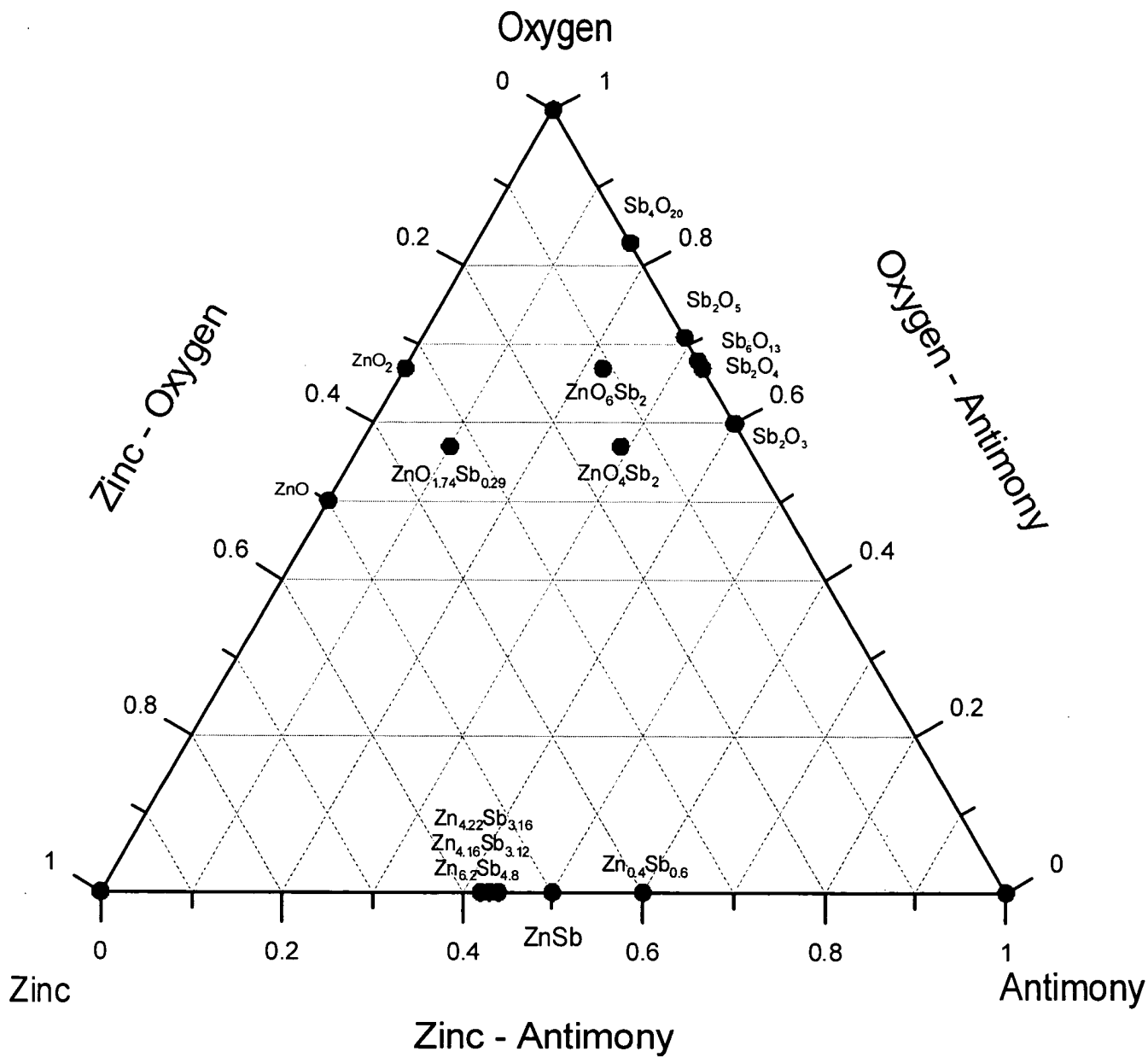


Fig. 14

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Zinc - Oxygen - Phosphorus Ternary Diagram

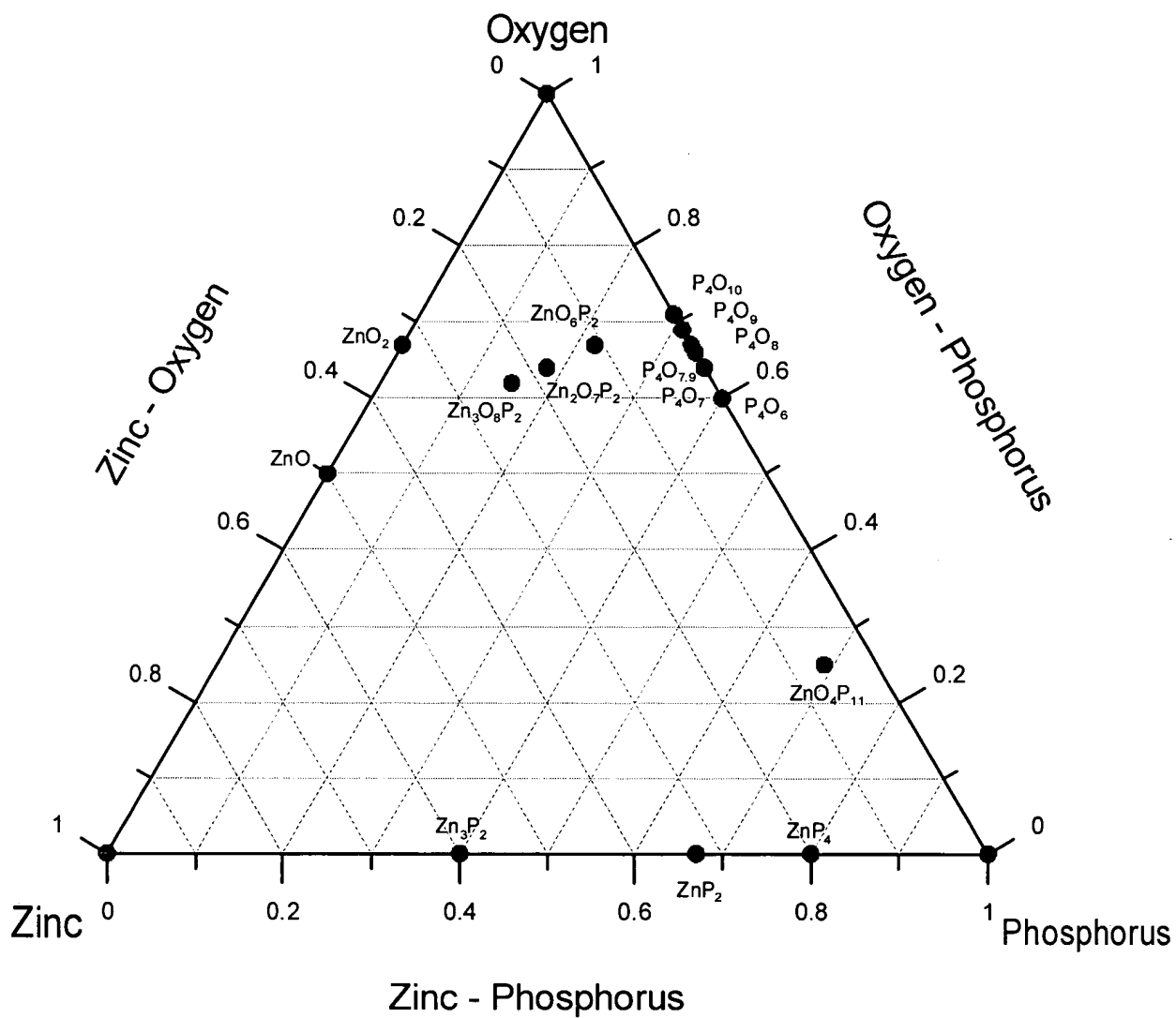


Fig. 15

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Zn - O - Bi Ternary Diagram

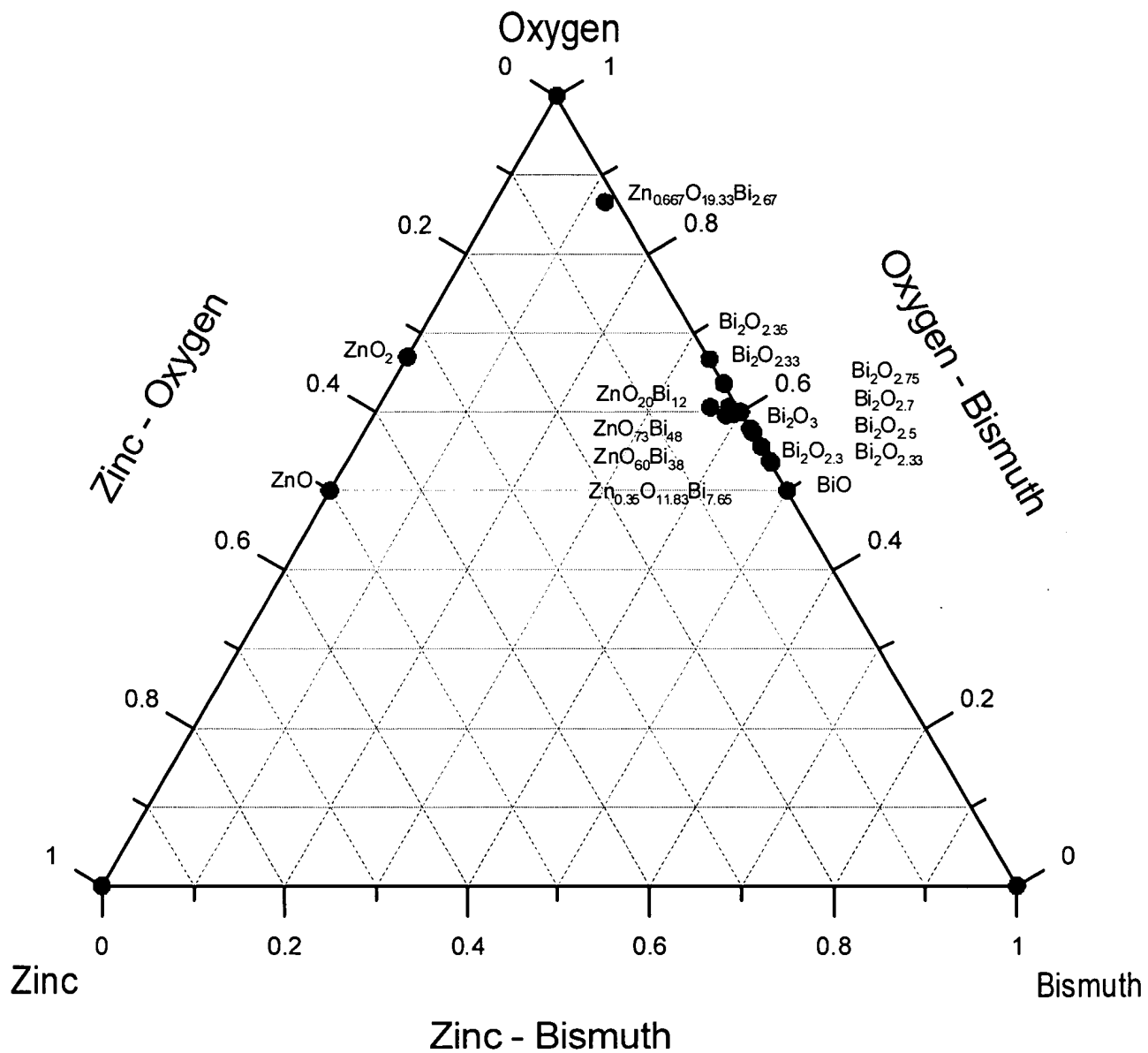


Fig. 16

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Zn - O - Cu Ternary Diagram

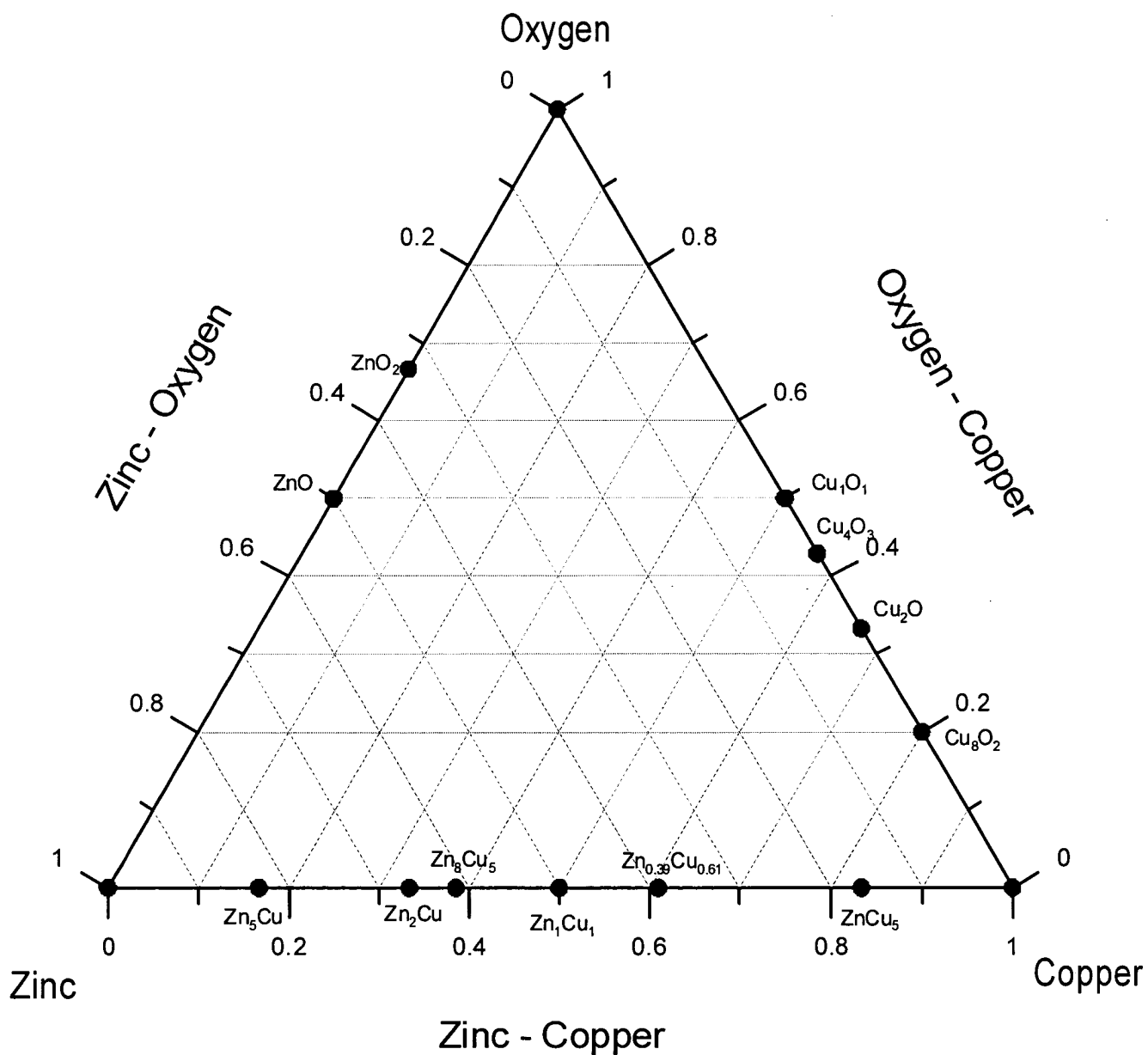


Fig. 17